## WHAT IS CLAIMED IS:

1. A method for forming a semiconductor device, comprising the steps of:

depositing a pad oxide film and a nitride film on a silicon substrate, forming a 77° angle trench by photo etching and dry etching, depositing a HLD oxide film and then performing device insulation;

performing a cell Vt implant process on the resulting material and then forming a first photoresist pattern for adjusting a capacitor Vt;

defining a capacitor region by performing dry etching using the HLD oxide film and the first photoresist pattern as a barrier layer;

performing an implant process on the resulting material;

forming a gate oxide film on the resulting material, depositing a doped poly and forming a second photoresist pattern;

forming a trench capacitor and a gate by photo etching and dry etching using the second photoresist pattern; and

depositing an interlayer film on the resulting material, planarizing the same, forming a metal contact and performing a bit line and wiring process thereon.

- 2. The method of claim 1, wherein the dry etching process for defining the capacitor region is performed at 80 to 90 degrees.
- 3. The method of claim 1, wherein a cleaning process is performed with an ammonia-based cleaning solution after definition of the capacitor region.
- 4. The method of claim 1, wherein four inside surfaces of the capacitor are all defined as a capacitor region to thus increase the capacitance of the capacitor by performing an additional dry etching process using the HLD oxide film and the first photoresist pattern as a barrier layer,
- 5. The method of claim 1, wherein a tilt implant process is performed in order to implant a dopant uniformly on the side faces and bottom of the trench capacitor when the implant process is performed on the resulting material on which the capacitor region is defined.